Type System Design Diagram

TokenAnnotation

Begin
End
casIdProcessor: uima.cas.String
confidence: uima.cas.Double

uima.tcas.Annotation

ElementType

AnswerAnnotation

Begin
End
casIdProcessor
confidence
isCorrect

QuestionAnnotation

Begin
End
casIdProcessor
confidence

AnswerScoreAnnotation

Begin
End
casIdProcessor
confidence
score: uima.cas.Double
answer: AnswerAnnotation

NGramAnnotation

Begin
End
casIdProcessor
confidence
elements: uima.cas.FSArray
elementType: uima.cas.String
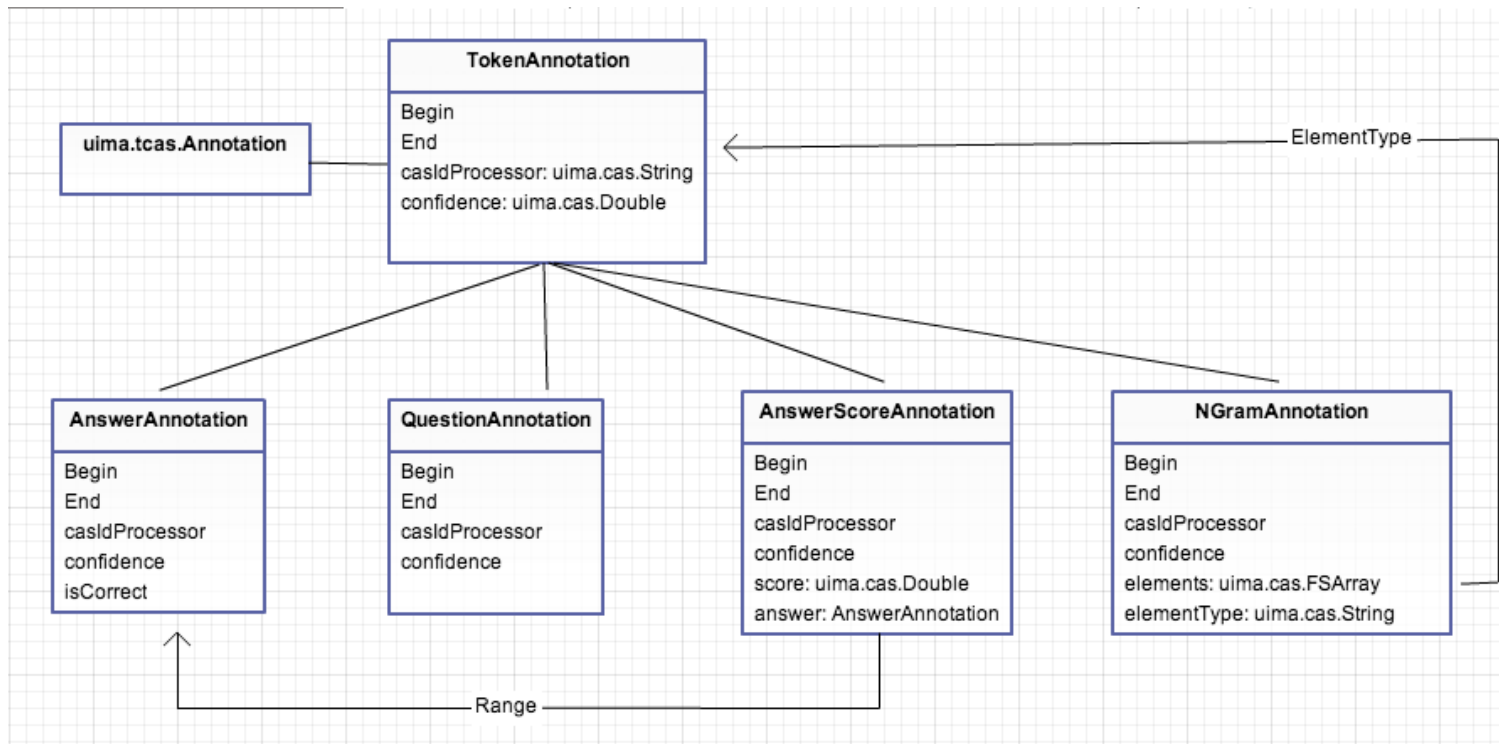
Range

Additional Note:
1. "isCorrect" feature in AnswerAnnotation is a boolean type.
2. "answer" feature in AnserScoreAnnotation is a AnserAnnotation type as the arrow shows.
3. "elements" feature in NGramAnnotation is a FSArray type, and it consists of elements that are TokenAnnotation type as the arrow shows.
4. AnswerAnnotation, QuestionAnnotation, AnserScoreAnnotation, NgramAnnotation have a common supertype TokenAnnotation.
5. There is one more type which was not added into the diagram called EvaluationAnnotation.
   Type Name: Evaluation Annotation (Output the Answers ranked by the value of answer score and the Precision at N)
   Feather1: Precision
   Feather2: AnswerNumberN
   Feather3: Elements (Contain the elements of total answers which are AnswerScoreAnnotation type.)